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Appendix C

11 Aug 73

REQUIREMENTS FOR VAULT CONSTRUCTION

1. Walls, floors, and ceilings shall be a minimum thickness of 8" reinforced concrete of 3,000 psi compressive strength. Reinforcing shall be minimally 5/8" diameter rods positioned centrally in the pour and space 5" on center each way; tie or weld at intersections.

2. Vault door shall be a Class 5 Government approved door complete with flange frame for 8" wall and a key change combination lock. Width of opening approximately 40".

3. Openings as they apply to vaults. No windows are allowed. Openings for vents and ducts shall not exceed 90 sq. inches and shall be barred with grille of 5/8" diameter rods 5" on center each way imbedded into concrete a minimum of 4 inches.

4. Motion Detection Security: The following are the desirable qualities to be incorporated into this security alarm installation:

a. Sensitivity to the human intruder is to be uniform and as a maximum should be set to allow no more than four (4) steps in four (4) seconds. An average step is considered to be twenty-five (25) inches.

b. Balanced door contact switches.

c. All equipment is to be solid state.

d. All units should be equipped with tamper switches.

e. The ultrasonic transducers are to be the crystal type; no magneto striction.

f. All control switches (Day/Night) are to be mounted inside the Secure Area/Vault.

~~SECRET~~

**SECRET**

2/2

Appendix C  
Continued

17 Aug 73

g. Provide battery standby power -- trickle charge type; or if service contract, any type battery supply.

h. In the event of total power failure, the alarm system should go into alarm if no battery standby provided.

i. The ultrasonic and door contact switches are to be connected into the same master control so as to deactivate both systems when in the Day position. Tamper switches should be active in the Day or Night modes.

5. Fire Detection: A rate of rise fire detection system is required in each vault.

**SECRET**

2